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DESCRIPTORS: *Elastomers, *Polyethylene plastics, *Butenes, *Isoprene, *Butadienes, *Acrylonitrile polymers, *Styrene plastics, Copolymerization, Mechanical properties, Elasticity, Sound transmission.

(Materials: Elastomers, TT, v. 11, no. 3) (over)

TT-64-12059

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Bauerbeck, Hans-Jürgen.
THE Y CIRCULATOR. [1943] 34p. 23cm.
Order from SLA \$3.60 TT-64-14634

Trans. of [Archiv der Elektrischen Übertragung] (West Germany) 1943, v. 17, n. 163-174. (Abstract available)

DESCRIPTORS: *Microwave equipment, *Waveguides, Scattering, Field theory.

Under the condition that losses are absent, the paper derives statements concerning the magnitudes of the scattering matrix elements for the Y-circulator which has lately found many applications. A field-theoretical analysis is carried out for a waveguide Y-circulator under some simplifying assumptions. The circulator effect can accordingly be explained by interference of two rotary H_{110} -fields in the circular-cylindrical cavity. (Author)
(Engineering--Electronic, TT, v. 11, no. 10)

TT-64-14634

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DESCRIPTORS: *ALUMINUM compounds, Oxides, Sintering, Heating, Phase transitions, Mechanical properties, *Powder metallurgy.

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